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Plankton Research: Studies on the biology, physiology, biochemistry and genetics of plankton organisms both under laboratory and field conditions. Biological and biochemical oceanography. Environment-organism and organism-organism interrelationships.

Experimental Biology: Research on metabolic rates and routes in microorganisms, plants and animals. Respiration; nutrition; life cycles.

Biochemistry, Physiology and Behaviour: Biochemical research on marine organisms; photosynthesis; permeability; osmoregulation; ionregulation; active transport; adaptation; analyses of environmental effects on functions (tolerances, rates and efficiencies of metabolism, growth and reproduction) and structures; migrations; orientation; general behaviour.

Biosystem Research: Experimental biosystems and microcosms. Energy budgets: flow routes and balance sheets of energy and matter in the marine environment. Interspecific interrelationships, food webs. Dynamics and structures of microbial, plant and animal populations. Use, management and protection of living marine resources. Effects of man on marine life, including pollution.

Evolution: Investigations on speciation, population genetics, and biological history of the oceans.

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Contents

Volume 76 Number 1 1983

W. E. G. Müller, J. Conrad, H. C. Schröder, R. K. Zahn, Z. Kljajić, I. Müller, G. Uhlenbruck
Cell-cell recognition system in gorgonians: description of the basic mechanism 1

J. C. Goldman, M. R. Dennett
Effect of nitrogen source on short-term light and dark CO_2 uptake by a marine diatom 7

C. L. McLay
Dispersal and use of sponges and ascidians as camouflage by *Cryptodromia hilgendorfi* (Brachyura: Dromiacea) 17

S. S. Bell
An experimental study of the relationship between below-ground structure and meiofaunal taxa 33

J. A. Blundon, G. J. Vermeij
Effect of shell repair on shell strength in the gastropod *Littorina irrorata* 41

R. L. Radtke
Chemical and structural characteristics of statoliths from the short-finned squid *Illex illecebrosus* 47

J. M. Frazier, S. G. George
Cadmium kinetics in oysters – a comparative study of *Crassostrea gigas* and *Ostrea edulis* 55

S. G. George, B. J. S. Pirie, J. M. Frazier
Effects of cadmium exposure on metal-containing amoebocytes of the oyster *Ostrea edulis* 63

T. Borchardt
Influence of food quantity on the kinetics of cadmium uptake and loss via food and seawater in *Mytilus edulis* 67

C. A. Jacoby, M. J. Youngbluth
Mating behavior in three species of *Pseudodiaptomus* (Copepoda: Calanoida) 77

J. R. Sargent, C. C. E. Hopkins, J. V. Seiring, A. Youngson
Partial characterization of organic material in surface sediments from Balsfjorden, northern Norway, in relation to its origin and nutritional value for sediment-ingesting animals 87

S. M. Thompson, G. P. Jones
Interspecific territoriality and competition for food between the reef fishes *Forsterygion varium* and *Pseudolabrus celidotus* 95

R. S. Batty
Observation of fish larvae in the dark with television and infra-red illumination 105

Volume 76 Number 2 1983

J. Widdows, S. L. Moore, K. R. Clarke, P. Donkin
Uptake, tissue distribution and elimination of [1-^{14}C]naphthalene in the mussel *Mytilus edulis* 109

J. Satsmadjis, F. Voutsinou-Taliadouri
Mytilus galloprovincialis and *Parapenaeus longirostris* as bioindicators of heavy metal and organochlorine pollution 115

M. Telford
An experimental analysis of lunule function in the sand dollar *Mellita quinquiesperforata* 125

T. G. Jacques, N. Marshall, M. E. Q. Pilson
Experimental ecology of the temperate scleractinian coral *Astrangia danae*. II. Effect of temperature, light intensity and symbiosis with zooxanthellae on metabolic rate and calcification 135

J. M. Baxter
Annual variations in soft-body dry weight, reproductive cycle and sex ratios in populations of *Patella vulgata* at adjacent sites in the Orkney Islands 149

M. Murai, S. Goshima, Y. Nakasone
Adaptive droving behavior observed in the fiddler crab *Uca vocans vocans* 159

J. J. Childress, M. H. Price
Growth rate of the bathypelagic crustacean *Gnathophausia ingens* (Mysidacea: Lophogastridae). II. Accumulation of material and energy 165

continued on next page

D. M. Anderson, S. W. Chisholm, C. J. Watras
Importance of life cycle events in the population dynamics of *Gonyaulax tamarensis* 179

M. Poulin, A. Cardinal, L. Legendre
Réponse d'une communauté de diatomées de glace à un gradient de salinité (baie d'Hudson). [Response of a community of ice diatoms to a salinity gradient (Hudson Bay)] 191

M. Takahashi, P. K. Bienfang
Size structure of phytoplankton biomass and photosynthesis in subtropical Hawaiian waters 203

P. K. Bienfang, M. Takahashi
Ultraplankton growth rates in a subtropical ecosystem 213

Volume 76 Number 3 1983

S. S. Chang, B. B. Prézelin, R. K. Trench
Mechanisms of photoadaptation in three strains of the symbiotic dinoflagellate *Symbiodinium microadriaticum* 219

B. P. Kremer
Carbon economy and nutrition of the alloparasitic red alga *Harveyella mirabilis* 231

N. M. Saks
Primary production and heterotrophy of a pennate and a centric salt marsh diatom 241

T. L. Tan
Unbalanced growth of *Acinetobacter* CS 13 in glucose-limited chemostats caused by sublethal $CdCl_2$ concentrations 247

K. Fukami, U. Simidu, N. Taga
Change in a bacterial population during the process of degradation of a phytoplankton bloom in a brackish lake 253

M. Maeda, W. J. Lee, N. Taga
Distribution of lipopolysaccharide, an indicator of bacterial biomass, in subtropical areas of the sea 257

P. Holdway, L. Maddock
A comparative survey of neuston: geographical and temporal distribution patterns 263

J. Ishizaka, M. Takahashi, S. Ichimura
Evaluation of coastal upwelling effects on phytoplankton growth by simulated culture experiments 271

J. A. Stoddart
Asexual production of planulae in the coral *Pocillopora damicornis* 279

A. R. Beaumont, M. D. Budd
Effects of self-fertilisation and other factors on the early development of the scallop *Pecten maximus* 285

M. M. Hvilsom
Copper-induced differential mortality in the mussel *Mytilus edulis* 291

W. H. Wilson, Jr.
Life-history evidence for sibling species in *Axiothella rubrocincta* (Polychaeta: Maldanidae) 297

F. S. McEuen, B. L. Wu, F. S. Chia
Reproduction and development of *Sabella media*, a sabellid polychaete with extratubular brooding 301

B. F. Phillips
Migrations of pre-adult western rock lobsters, *Panulirus cygnus*, in Western Australia 311

E. B. Brothers, D. McB. Williams, P. F. Sale
Length of larval life in twelve families of fishes at "One Tree Lagoon", Great Barrier Reef, Australia 319

K. L. Smith, Jr., N. O. Brown
Oxygen consumption of pelagic juveniles and demersal adults of the deep-sea fish *Sebastolobus altivelis*, measured at depth 325

Indexed in Current Contents